



**Ontario Clean Water Agency  
Agence Ontarienne Des Eaux**

**PORT ELGIN WATER TREATMENT**

Large Municipal Residential Drinking Water System

**SCHEDULE 22  
SUMMARY REPORT**

For the period of:  
JANUARY 1, 2006 TO DECEMBER 31, 2006

Prepared by the Ontario Clean Water Agency  
For The Corporation of The Town of Saugeen Shores

March 28, 2006

### **SUMMARY**

This report is a summary of water quality and quantity information submitted in accordance with Schedule 22 of Ontario's Drinking Water System Regulation for the reporting period of January 1, 2006 to December 31, 2006 for the Port Elgin Water Treatment located in the Municipality of Saugeen Shores.

The summary includes:

1. Any requirements of the Act and Regulation, Orders or System Approval(s) that the system failed to meet during the reporting period and the measures taken to correct each failure.
2. A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
3. A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

### **ISSUES OF NON-COMPLIANCE**

The following table lists the requirements of the Act, Regulations, System Approval(s) and any Order that the system failed to meet during the reporting period and the measures taken to correct each failure:

<b>Drinking Water Legislation</b>	<b>Requirement(s) the system failed to meet</b>	<b>Duration</b>	<b>Corrective Action(s)</b>	<b>Status</b>
<b>System Permit to Take Water #92-P-0012</b>	The maximum water takings were not in accordance with those allowed under the PTTW.	August to December, 2006	The Operating Authority has instructed staff to calculate and recording average daily flow rates. A qualified technician has inspected and calibrated the flow meter and corrected the error which indicated no flow exceedances	Complete
<b>System Certificate of Approval #2084-6UNL4F</b>	The owner did not ensure that equipment was installed in accordance with the Certificate of Approval.	January 1 to December 31, 2006	The current flow measuring equipment is not capable of monitoring the flow rates in L/sec. The facility will be decommissioned with new upgrades and is also included as part of the contract.	Ongoing

<b>Ontario Regulations</b> <b>Reg. 170/03</b>	The system failed to ensure that Bacti samples reached the Lab for analyses after collection.	The week of April 9 to 15, 2006	The Operating Authority has made arrangements with Purolator to make a pick-up daily at the Southampton WWTP unless instructed otherwise. Notification of non-compliance issued to MOE office on April 18, 2006	Complete
<b>System Certificate of Approval</b> <b>#2084-6UNL4F</b>	The system failed to manually sample the filter effluent for turbidity.	June 15, August 3, and October 31, 2006	The Operating Authority has instructed staff and posted reminder sign on panel	Complete
<b>System Certificate of Approval</b> <b>#2084-6UNL4F</b>	Flow rates were not maintained below the maximum flow or the rated capacity identified in the Certificate of Approval.	August to December, 2006	The Operating Authority has instructed staff to calculate and record average daily flow rates. A qualified technician has inspected and calibrated the flow meter and corrected the error which indicated no flow exceedances	Complete
<b>System Certificate of Approval</b> <b>#2084-6UNL4F</b>	The time and duration of each flow exceedance was not recorded for each event along with the reason for the occurrence.	August to December, 2006	The Operating Authority has hired a qualified technician to inspect and calibrated the flow meter and corrected the error which indicated no flow exceedances	Complete
<b>System Certificate of Approval</b> <b>#2084-6UNL4F</b>	The exceedances of the maximum capacity identified in the Certificate of Approval were not for an accepted reason (I.e. fire fighting demand, maintenance, etc.).	August to December, 2006	The Operating Authority has hired a qualified technician to inspect and calibrated the flow meter and corrected the error which indicated no flow exceedances	Complete
<b>Ontario Regulations</b> <b>Reg. 170/03</b>	The facility and equipment did not appear to be maintained or in a fit state of repair.	January 1 to December 31, 2006	The Port Elgin Water Treatment Plant is an aging facility scheduled to be decommissioned October 31, 2008. It will only be used as a back-up for the upgraded Southampton Water Treatment Plant during this time.	Ongoing

**ASSESSMENT OF FLOW RATES AND QUANTITIES OF WATER SUPPLIED**

The following table lists the quantities and flow rates of the water supplied during the reporting period covered by this report, including monthly average and maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval:

<b>Port Elgin Water Treatment Plant</b>	<b>January 1- December 31</b>
Average Day Flow (m3/day)	3290.9
Maximum Day Flow (m3/day)	5159.0
Average Flow Rate (L/sec)	93.2
Maximum Flow Rate (L/sec)	106.0
Design Capacity (m3/day)	9164.2
Approved Flow Rate (L/sec)	106.0
% (Average Day/Design Capacity)	35.9
% (Maximum Day/Design Capacity)	56.3
% (Average Flow Rate/Approved Flow Rate)	87.9
% (Maximum Flow Rate/Approved Flow Rate)	100.0